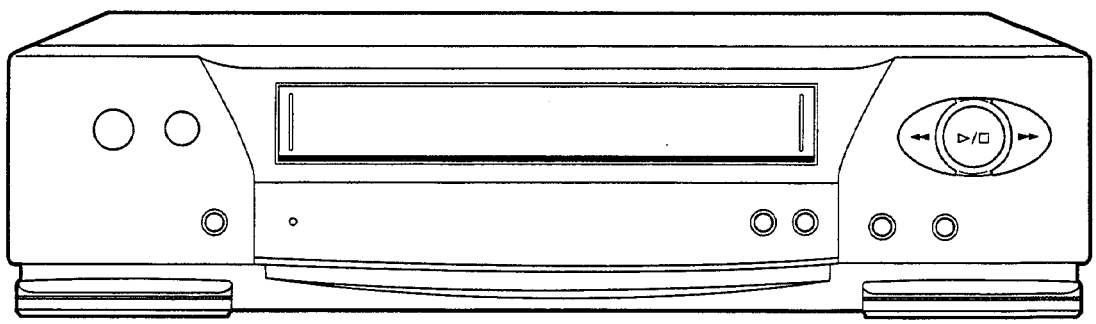
MITSUBISHI

VIDEO CASSETTE RECORDER
User's Guide

MODELS

HS-721V(B)
HS-740V(B)



VIDEOPlus+

VHS
PAL

THIS VIDEO CASSETTE RECORDER IS BASED ON THE VHS FORMAT. ONLY VIDEO CASSETTE TAPES MARKED VHS MAY BE USED WITH THIS MODEL.

THIS INSTRUCTION MANUAL IS IMPORTANT TO YOU. PLEASE READ IT BEFORE USING YOUR VIDEO CASSETTE RECORDER.

872C180B10

Introduction

Congratulations...

on purchasing a Mitsubishi HS-721V(B) or HS-740V(B) Video cassette recorder. You have acquired a top product from Mitsubishi. In addition to a wide range of functions and convincing picture and sound technology, this appliance also offers the new '1-2-3 MENU' function, which enables you a trouble-free operation by using number buttons on the remote control.

We wish you much enjoyment with your new Mitsubishi HS-721V(B) or HS-740V(B).

Layout of the guide

When you use this guide, unfold the flap pages so that you will gain an overview of the component parts.

This guide is arranged as follows:
Chapter I explains how to connect up the VCR and prepare it for use. Chapter II provides an overview of all the tape functions and Chapter III demonstrates how to record. Chapter IV shows how to playback. Chapter V describes further facilities your VCR possesses. In the event of any problems and faults please refer to Chapter VI before contacting your service department.
There is a key words index in Chapter VII and a listing of the technical data in Chapter VIII. In addition this manual contains a short description of the remote control, the on screen menus and an explanation of the buttons and displays (see flap pages).

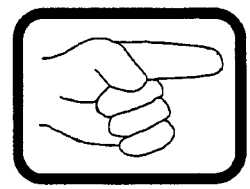
By studying this you will find clear, important information on how to use your new VCR.

Explanation of the advisory signs

In this user manual we are operating with the following signs to draw your attention.

WARNING!

If this sign appears next to the text, please observe the warning carefully in order to avoid serious faults.



N.B.!

This sign indicates further facilities and helps prevent misuse.

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Caution: Unauthorised recording of TV programmes or other materials may infringe the right of copyright owners and be contrary to copyright laws.

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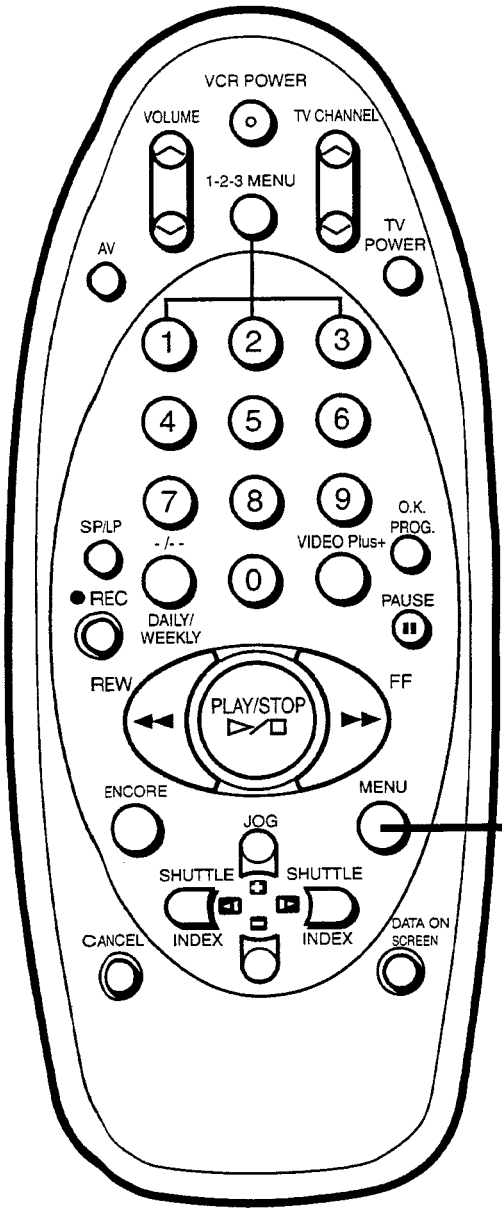
This Video Cassette Recorder complies with the requirements of the following EC Directives, 89/336/EEC and 73/23/EEC, as amended by Directive 93/68/EEC.

This VCR complies with specific E.M.C. Standards namely EN55013 and EN55020.

Your attention is drawn to the warning notice on the rear of this VCR. Do not remove the top cover as there is a risk of an electric shock.

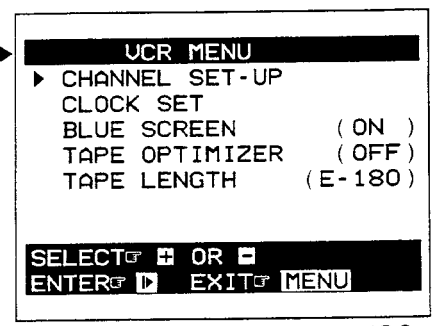
Remote menus

Though the HS-721V(B) or HS-740V(B) has many features we have made an effort to try to bring to you a clear understanding of the VCR and a user friendly remote control by putting programming menus and less regularly used functions onto an ON SCREEN MENU. The use of these menus is eased by a colour coded guide and the on screen information.



MENU button

One press of the MENU button.



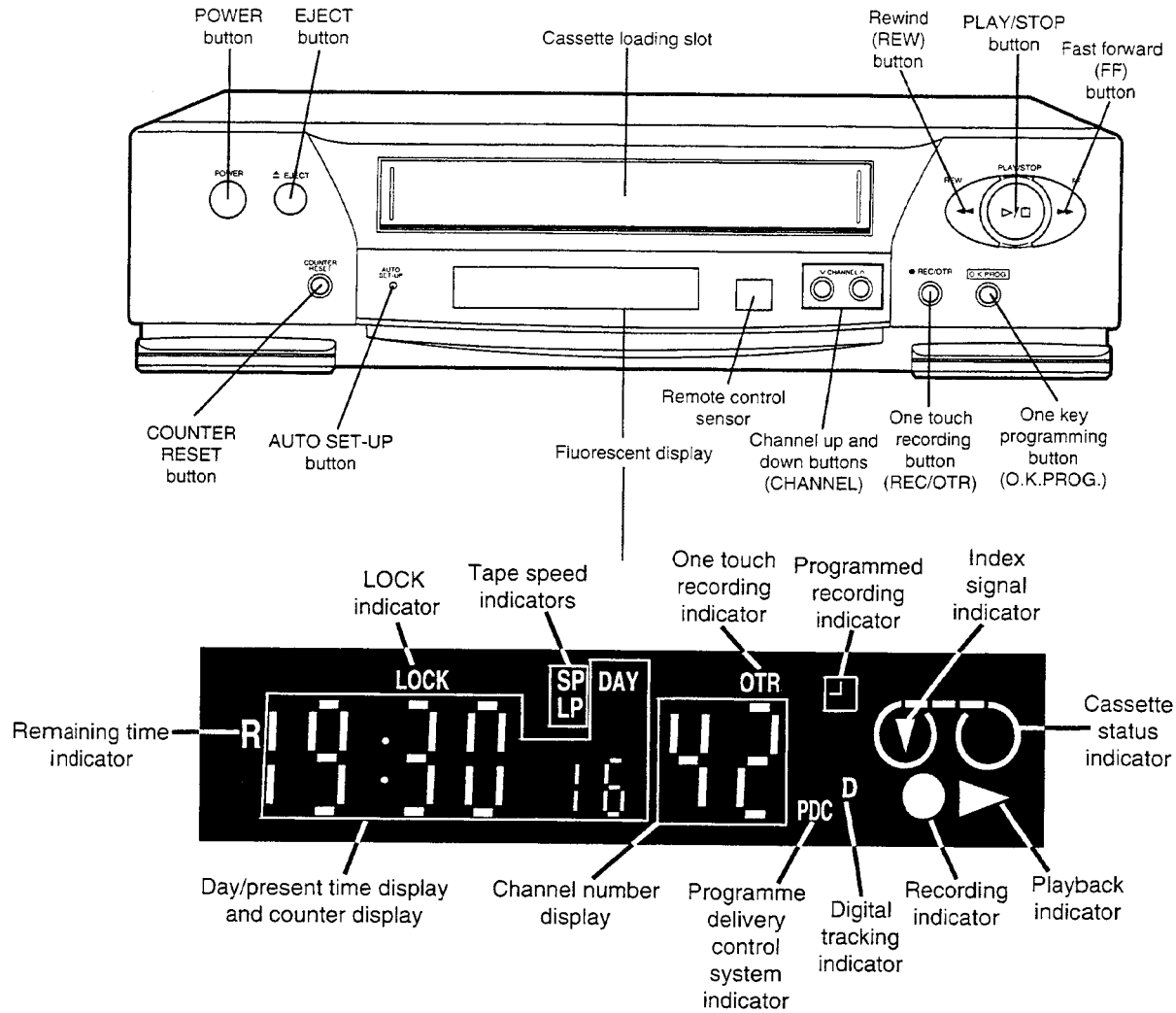
Select the desired item with the JOG + or JOG - buttons and then press the SHUTTLE ▶. You can quit a menu at any time by pressing the MENU button.

If by chance your remote control is not available or it is faulty, you will still be able to make timer programming as follows:

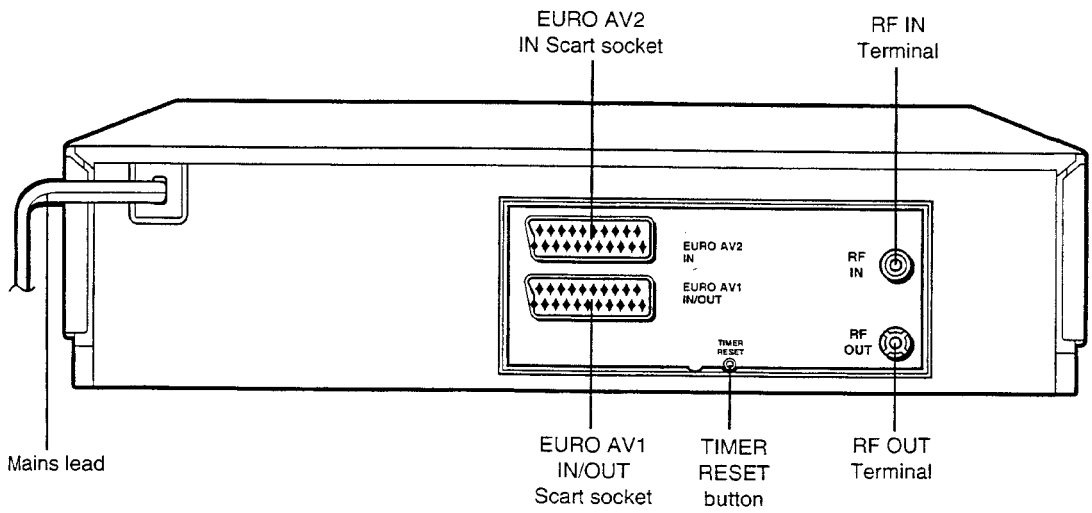
1. Press the O.K.PROG. button on the VCR to enter the programming menu.
2. Enter every step of programming data by pressing the O.K.PROG. button when the cursor flashes at the selected item. Release the O.K.PROG. button when your input is completed and the cursor will move to the next position after 4 seconds.
3. When you have completed inputting all your data, set the "CONFIRM" to YES and the VCR will automatically switch to standby mode for recording.
4. If you want to leave the programming menu without entering all your data, press the PLAY/STOP button on the VCR.

Video Recorder

Controls and displays

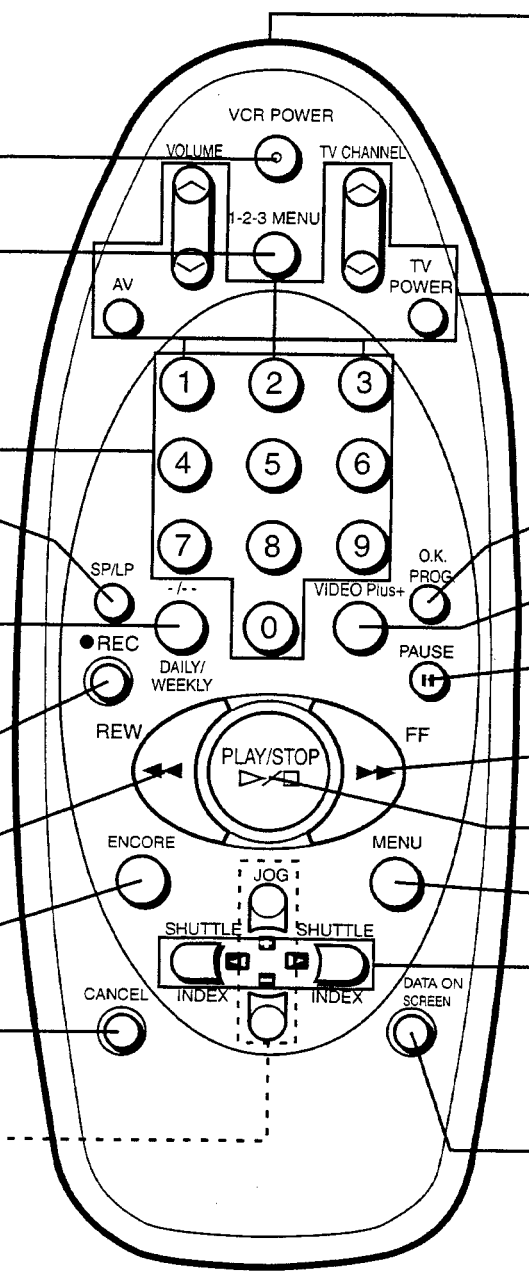


NOTE: The day and present time display illuminate to indicate that the VCR is in standby mode. The channel number display and the tape speed indicator illuminates to indicate that the VCR is ON.



Remote control functions

Detailed information regarding these functions can be obtained within the relevant chapter.



Transmission window

ON/OFF button

1-2-3 MENU display ON/OFF button

Buttons for TV

Channel selection or number buttons.

Tape speed button

For two digit channels, press this button before entering channel numbers or press for DAILY/ WEEKLY settings when entering VIDEO Plus+ programming details.

During Stop: Record start
During Record: Record index
During Playback: Record index

During Stop: Rewind
During Play: Speed search

Scene repeat or replay

Cancel programming settings and erase index signals.

JOG buttons:
During Menu: Selection of menu items
During Stop: Channel select
During Pause: Frame advance (Forward and reverse)

One key programming

VIDEO Plus+ button, for quick recording.

During Play: Pause
During Record: Record pause

During Stop: Fast forward
During Play: Speed search

During Stop: Play
During Play: Stop

During screen menu ON/OFF button.

SHUTTLE buttons:
During Menu: Menu point activation
During Menu: Change a menu point
During Pause or Playback: Picture search
During Stop: Index search

During screen operation button ON/OFF

TECHNICAL DATA

Video system	VHS TAPE
Colour Standard	PAL colour and CCIR monochrome
Video heads (721VB)	2
Video heads (740VB)	4 x DJ
Programme storage	60
Tape speed	23.39 mm/Sec. (SP) 11.70 mm/Sec. (LP)
Number of recordable programmes per month	8 (daily/weekly)
Record/Playback time	240 mins. with VHS E-240 cassette (SP) 480 mins. with VHS E-240 cassette (LP)
Rewind speed	x 200 (LP) (2 mins. approx. with VHS E-180 cassette)
Scart sockets	2
Mains disconnection time backup	60 mins.
Power consumption	Approx. 23 Watts
Mains Voltage	230 Volts
Aerial Input	UHF Channel 21~ 69 75 Ohm unbalanced IEC socket
Aerial Output	Channel 68 (selectable to Channel 22 ~ 69) 75 Ohm unbalanced IEC plug
VIDEO	
Input	0.5 to 2.0 Vp-p, 75 Ohm unbalanced 21 pin Scart socket
Output	1.0 Vp-p, 75 Ohm unbalanced 21 pin Scart socket
AUDIO	
Input	-8 dBs 10k Ohm (MIN) unbalanced 21 pin Scart socket
Output	-8 dBs 1k Ohm unbalanced 21 pin Scart socket
Operating Temperature	5°C to 40°C
Operating Humidity	30% to 80%
Weight	3.9 kg
Dimensions	380 x 92 x 303 mm
Battery type for remote control	AAA (R03)(UM-4)

A station is a signal that the TV station's transmitter sends i.e. BBC1, BBC2 and ITV etc.
A channel is the position where you have a station stored.

The information regarding the weight and sizes are approximate values.

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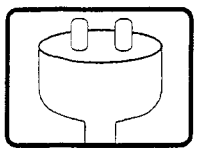

Installation and connection

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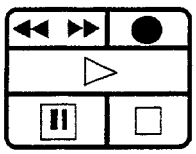

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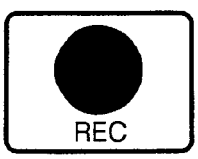

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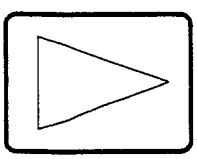

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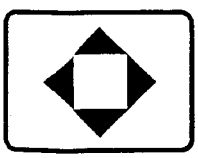

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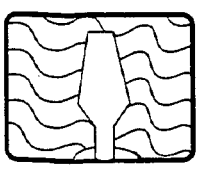

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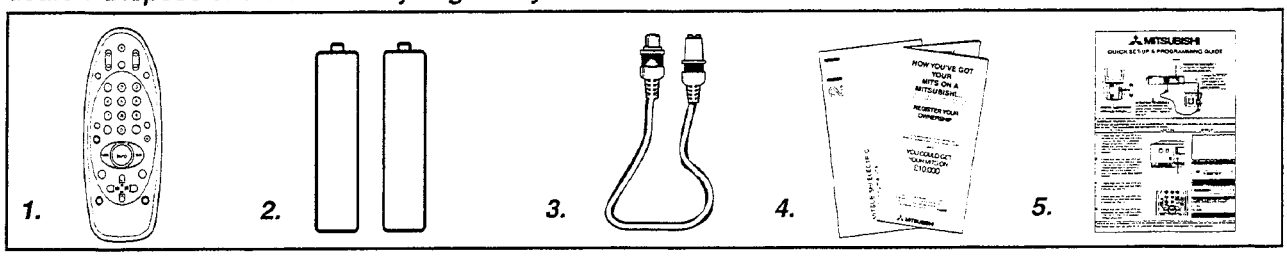
Installation and connection

Before setting up, make sure that the following items are at hand: 1. remote control, 2. batteries, 3. coaxial cable, 4. guarantee card and an envelope, 5. quick set-up guide. If there are any items missing, contact your dealer. Dispose of the accessory bag safely.



Safe use of this VCR

Before you choose a place for your VCR, please note the following:

Never allow this appliance to be exposed to rain or moisture (danger of shorting and electric shock), or in a workshop (problem of dust, vibration or magnetic disturbance). Keep the VCR away from heat sources (radiators or direct sunlight) and air conditioning equipment.

Do not obstruct the air vents by covering the VCR. Do not install the VCR in a confined space. If you are installing the VCR into a bookcase or built in cabinet make sure there is sufficient air circulation. Overheating will cause damage and shorten the life of this VCR. Place on a solid, vibration free surface.

Avoid large variations in temperature and dampness. Condensation may ruin the tapes and tape transport. Should the VCR be subject to a wide temperature change on installation, switch the VCR to ON but do not operate the VCR for about two hours. The VCR will gradually warm up, and disperse any condensation.

Do not place heavy objects such as a television on top of the VCR. The casing may become warped. Do not touch the inside of the VCR or insert any foreign objects of any kind. Foreign bodies can damage the VCR considerably.

Never place containers of liquid on the VCR (e.g. vases of flowers or drinks). Liquid spillage can lead to fire, electric shock or shorting.

Please ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are in accordance with the manufacturer's instructions. Always withdraw the mains plug when making or changing connections.

A damaged mains lead is a potential fire or shock hazard. When unplugging your VCR, pull it out of the socket by means of the plug (not the lead). Ensure the lead is not in contact with the appliance surface for long periods. When going away for a long period of time always disconnect the VCR from the mains and remove the aerial lead.

When you finish operating your VCR always unload the cassette and turn off the VCR's POWER. Remember the VCR will still be connected to the mains voltage when the POWER is turned off.

Wipe the VCR with a soft, dry, clean cloth or a clean cloth slightly moistened with a mild detergent. If you are ever in doubt about the installation, operation or safety of your equipment, contact your dealer.

If you are in any doubt about the VCR working normally, or if it is damaged in any way - switch off, withdraw the mains plug and consult your dealer. Never remove any fixed cover as this may expose dangerous voltages.

Do not leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a stand-by mode. For switching the equipment off, special arrangements may need to be made for infirm or handicapped people.

Mains lead connection

The mains lead on this VCR is fitted with a non-rewireable mains plug, incorporating a 3A fuse. If you need to replace the fuse, use a 3A fuse approved by BSI or ASTA to BS 1362, ensuring you refit the fuse cover. If the mains plug is not suitable for the sockets in your home, and you require to remove the plug, remove the fuse, cut off the plug then dispose of the plug immediately, to avoid a possible electric shock hazard. To refit a new plug, follow the instructions below:

Blue: Neutral, Brown: Live

As the colours in the mains lead of this VCR may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows. The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black. The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Red. Do not connect either wire to the terminal which is marked with the letter E or the earth symbol or coloured Green or Green and Yellow.

If in doubt - consult a competent Electrician.

Installation and connection

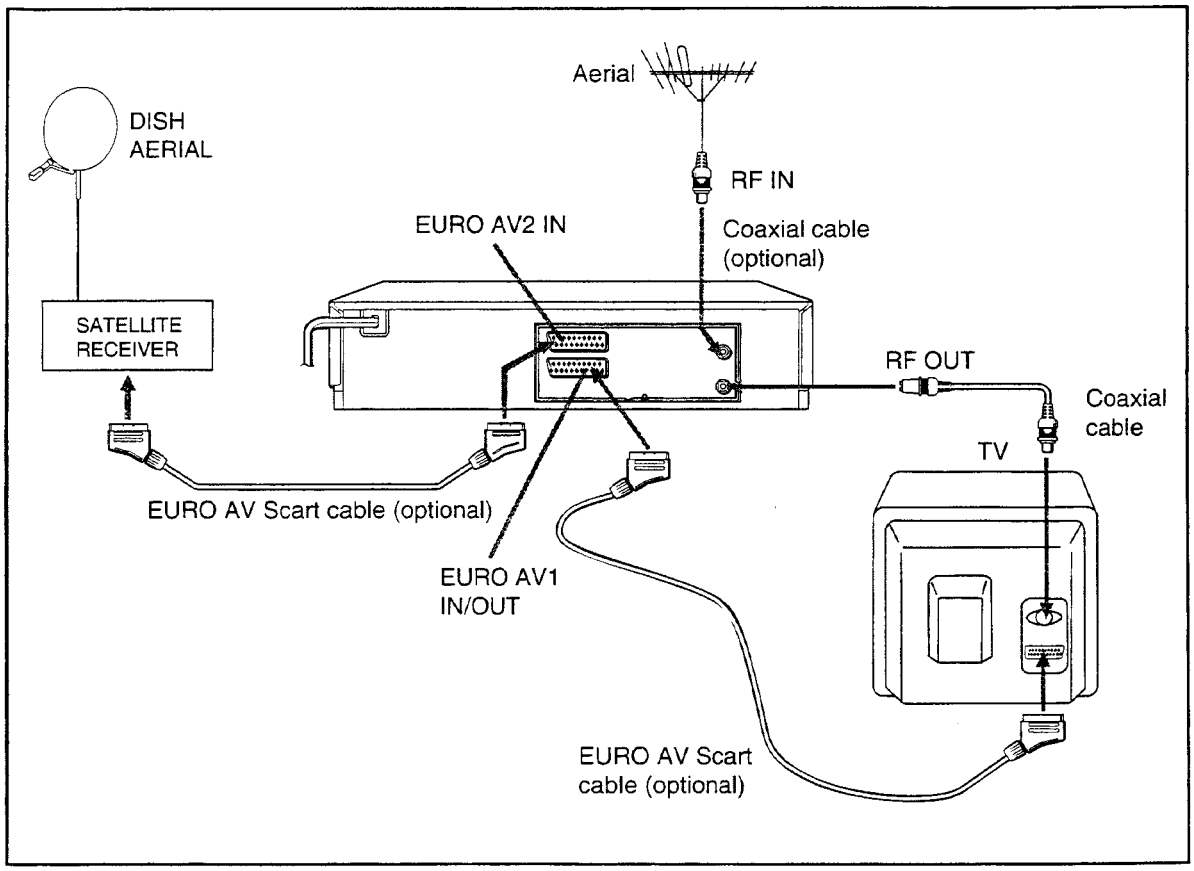
Connecting the VCR to an aerial, mains and TV

When you have chosen a suitable place, proceed as follows:

1. Plug in the aerial lead to the RF IN socket on the VCR and connect the coaxial cable (supplied) from the RF OUT socket on the VCR to the aerial socket on the TV.

2. Your TV and VCR can now be connected to the mains supply.

Tip: If your TV or monitor has a Scart connection, you can connect a Scart lead to the VCR Scart socket. This will result in an improved picture quality. (To obtain a Scart cable, contact your dealer.)



Connecting the VCR to other appliances (if required)

By selecting an external channel L1 or L2, you can utilise the Euro AV scart sockets on the rear of this VCR. For example, L1 selects the EURO AV1 IN/OUT socket and L2 selects the EURO AV2 IN socket.

If you wish, you can connect other appliances such as a Camcorder or a Satellite receiver to your VCR. To do this you will need a cable with at least one Scart plug. The plug at the other end of the cable will plug into the external appliance. As the VCR has two Scart sockets, it can be connected to two or more appliances simultaneously (e.g. Satellite receiver and TV).

To select an external channel (L1 or L2), press the JOG ■ button on the remote control.

The external channels are linked to the following EURO AV connectors:

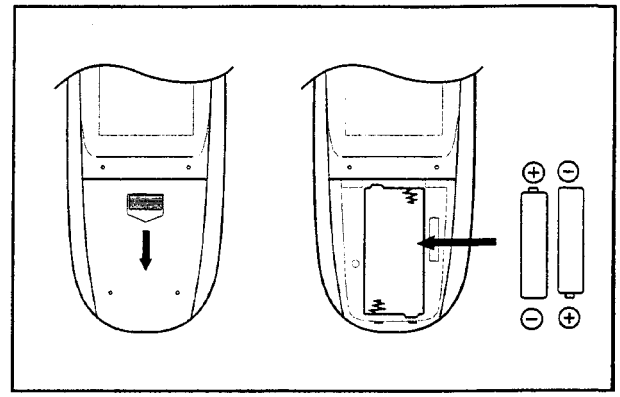
L1 = EURO AV1 IN/OUT scart socket

L2 = EURO AV2 IN scart socket

Installation and connection

Inserting the batteries in the remote control

Place the batteries in the remote control. Observe the polarities (see diagram on the right). If you have a Mitsubishi TV, you can also control the most important TV functions with the same remote control. **Please regard the remote control as the command HQ of your VCR.**



The operating distance for the remote control is up to 7 metres.

Dispose of any old batteries carefully. Do not heat, disassemble or throw them in a fire. Make sure they do not fall into the hands of children. They are highly toxic!

The batteries should always be changed as a pair.

Make sure that there are no obstructions between you and the VCR i.e. a video cassette placed in front of the remote control sensor.

Setting up the video channel on the TV

A free channel must be kept on your TV for watching recordings. Tune in the video channel as follows:

Tip: If you are using a Scart cable, you can ignore the following settings. Select the AV or EXT channel on your TV and set the RF OUT channel to "--" on the fluorescent display. This can be achieved by following steps 5 and 6.

1. Turn on the VCR by using the POWER button on the remote control.

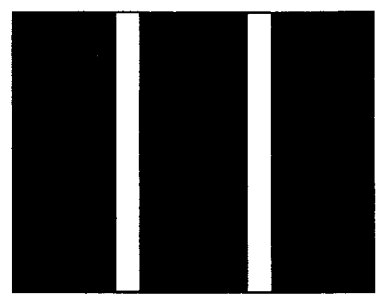
2. Turn on the TV.

3. Press the MENU button on the remote control.

4. Choose a free channel on the TV and tune it to UHF channel 68. Follow the instructions for the TV. The VCR has been set to UHF channel 68. The VCR MENU should appear on the screen.

Should the video channel encounter interference from another source, or infringes upon another channel, this will be apparent through snow, colour distortion or blurred print in the menu. In this case, it must be fine adjusted. Proceed as follows:

5. Confirm that the VCR is in standby mode. Press the O.K.PROG. button on the VCR and the CHANNEL ∧ or ∨ buttons at the same time. Two vertical white lines (test signal) should now appear on the TV screen. (Channel 68 will be shown on the fluorescent display.)



6. Keep the O.K.PROG. button depressed and simultaneously press the CHANNEL ∧ or ∨ buttons to select another channel within the range of 22 - 69. ("--" will appear after channel 69.) Press the POWER button.

7. Repeat steps 1 and 3 and select the appropriate channel number on the TV, i.e. the same number selected on the VCR in step 6.

If interference is still encountered, repeat steps 5 to 7 to select a different channel.

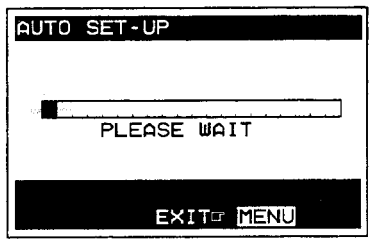
Installation and connection

Automatic tuning and fine tuning stations

A. Automatic channel set-up

This VCR is equipped with a function which will automatically tune in, name some of your stations and also set the clock to the correct time and date. To do so, proceed as follows:

1. Press the AUTO SET-UP button which is on the front of your VCR, by using a suitable implement.



2. The VCR will scan until all stations are detected. If a station of poor signal can only be detected, the VCR will continue scanning until it receives a better signal.

When the VCR has found all the stations it will name them i.e. CH1 - BBC1, CH2 - BBC2, CH3 - ITV, CH4 - CH4, CH5 - CH5. Any weak signal stations will be tuned from CH6 upwards.

If the letters "At" are flashing on the fluorescent display, your VCR is tuning in your stations, when this stops flashing, tuning and clock setting has been completed.

Everyday at 11:15 a.m., the VCR will set the clock and date, only if the VCR is in standby mode.

If the reception signal is weak, noisy or lacking in a text signal or there is interference by stray signals, the auto set-up function may not work correctly.

B. Rearranging your stations

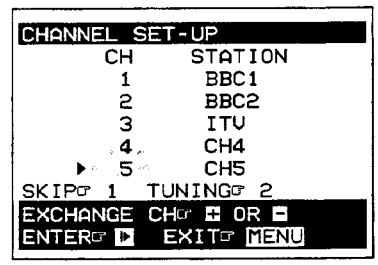
After you have used the AUTO SET-UP function, you may find that you are not satisfied with the positioning of the stations. To change the station positioning, proceed as follows:

1. Press the MENU button and choose CHANNEL SET-UP by pressing the SHUTTLE ◘ button.

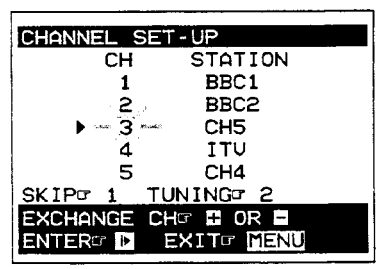
By pressing the DATA ON SCREEN button, the TV picture will be overlaid with the CHANNEL SET-UP display.

2. When the cursor is flashing, select the channel line you wish to alter by using the JOG ✚ or ▬ buttons.

3. Press the SHUTTLE ◘ button. The channel number will begin to flash.



4. To alter the channel's position, press the JOG ✚ or ▬ buttons until the desired location is selected.



If you wish to alter other channels, press the SHUTTLE ◘ button twice and repeat steps 2 to 4.

5. Press the MENU button to quit from this function.

C. Fine tuning stations (AFT)

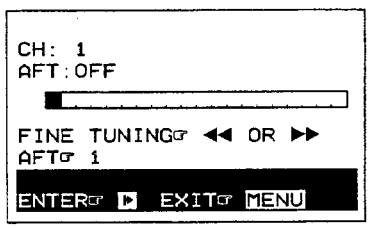
This VCR is equipped with Automatic Fine Tuning (AFT), which normally provides the best possible reception quality. If a station is weak, manual fine tuning may be necessary. Proceed as follows:

1. Press the MENU button and choose CHANNEL SET-UP by pressing the SHUTTLE ▶ button.

2. Select the channel to be fine tuned by pressing the JOG + or − buttons.

3. Now press the SHUTTLE ▶ button.

4. Press the number 2 button and then press the number 1 button to switch the AFT to OFF.

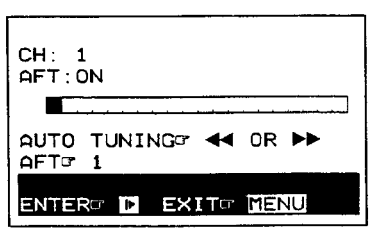


A bar will appear which shows the current position of the frequency band. Confirm that the AFT is OFF.

5. You can fine tune the channel by using the FF and REW buttons.

6. If you wish to fine tune further channels, repeat steps 2 to 5. To exit press the MENU button.

Stations not already stored in the VCR can be tuned in and stored, without having to go through the 'Auto set-up' function again. In step 4, press the number 2 button and ensure that the AFT is set to ON. If it is set to OFF, press the number 1 button. The following display should appear.



You can now search for a station not already stored by using the FF or REW buttons.

If a channel is very noisy (snow on the screen) the VCR reverts to a "blue background" (see 'Advanced features - Blue background' on page 22).

D. Skipping vacant channels

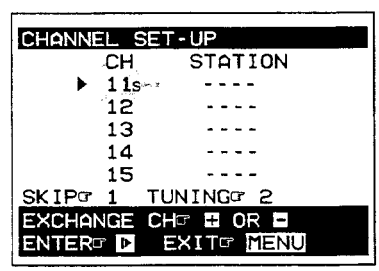
Up to 60 channels can be stored in your VCR. If not all channels are in use (i.e. noisy or weak stations) these can be skipped so that they are not selected by using the JOG + or − buttons.

Proceed as follows:

1. Press the MENU button and choose CHANNEL SET-UP by pressing the SHUTTLE ▶ button.

2. Select the channel to be skipped by pressing the JOG + or − keys, e.g. 11 and press the SHUTTLE ▶ button.

3. Press the number 1 button. (A small "s" will appear next to the channel you wish to skip.)



4. Press the SHUTTLE ▶ button twice and repeat steps 2 and 3 to skip further stations.

5. Press the MENU button to quit from this function.

If you change from channel to channel by using the JOG + or − buttons, you will find:....8, 9, 10, 12, 13.... i.e. number 11 is missing (skipped).

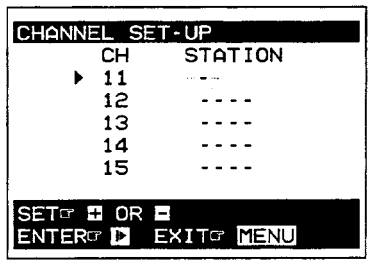
E. Naming your channels

Up to four characters can be used to identify any pre-set channel. To do this, proceed as follows:

1. Press the MENU button and choose CHANNEL SET-UP by pressing the SHUTTLE ▶ button.

2. Select the channel to be named by pressing the JOG + or − buttons and press the SHUTTLE ▶ button twice.

3. Press the FF button. The first character position of the station name flashes.



4. Change the first character by pressing the JOG + or − buttons. Press the SHUTTLE ▶ button to move to the next character and change it by pressing the JOG + or − buttons.

5. Repeat step 4 to set the rest of the characters. (A maximum of 4 characters can be entered for each station name.)

6. After you have entered the channel name, press the SHUTTLE ▶ button.

7. Repeat steps 2 to 6 for naming other channels.

8. Press the MENU button to quit from this function.

To cancel the name, follow step 2 and press the CANCEL button.

Installation and connection

Changing the clock and date

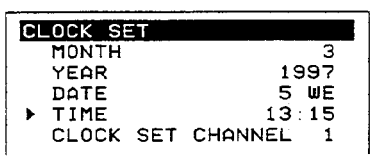
The clock will be automatically set after the AUTO SET-UP function is utilised. This procedure is for manually changing the VCR's time and date. The correct time on the VCR's clock is necessary for programmed recordings. Proceed as follows:

1. Turn on the VCR and turn to the video channel on your TV.

2. Press the MENU key. (The VCR MENU appears on the TV screen.)

3. Use the JOG + or − buttons to select the CLOCK SET menu. Press the SHUTTLE ▶ button.

4. Use the JOG + or − buttons, to select the TIME. To enter your selections, press the SHUTTLE ▶ button.



5. The CLOCK SET CHANNEL position starts flashing. Repeat step 4 for the CLOCK SET CHANNEL, MONTH, YEAR and DATE.

6. Press the MENU button to quit the CLOCK SET display and to activate the clock.

To correct errors or to make changes, repeat steps 2 - 6.

To be able to view the clock after you have completed clock setting, switch the VCR to standby mode or press the DATA ON SCREEN button twice.

Changing the clock set channel

The CLOCK SET CHANNEL is factory preset to channel 1. This is necessary for the VCR to automatically reset the clock to the correct time and date everyday (see page 7). If you wish to change the CLOCK SET CHANNEL setting, proceed as follows:

1. Press the MENU button and select CLOCK SET by pressing the JOG + or − and then the SHUTTLE ▶ button.

2. Use the JOG + or − buttons to select another channel.

3. Press the MENU button to quit from this function.

If the reception signal is weak, the VCR may reset the clock incorrectly. In this case, set the CLOCK SET CHANNEL to "--". This will prevent the clock from being reset.

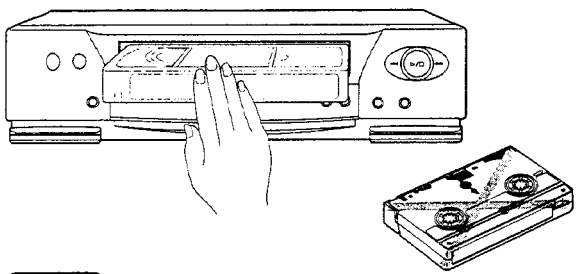
Due to signal conditions you may wish to change the CLOCK SET CHANNEL to another station, or you may wish to turn off this feature in exceptional cases.

Basic functions

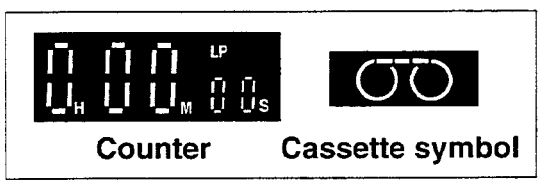
This chapter provides information about the basic functions of this Mitsubishi VCR. When you have read this chapter you will be able to record and playback programmes. All relevant tape functions are described here.

Before you insert a cassette into the VCR, note the following:

Insert the cassette as shown in the picture. Do not force the cassette into the loading slot; at a certain point the cassette will be drawn in automatically.



When you have inserted the cassette correctly the cassette symbol will light up on the display and the counter will show 0H00M00S.



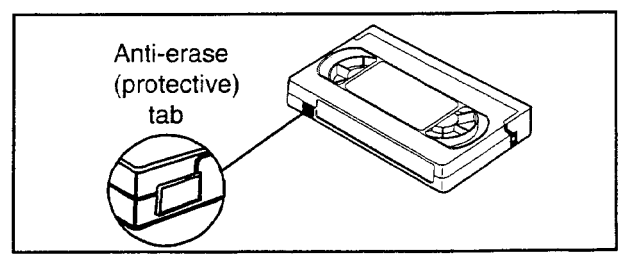
You can reset the counter at any time by pressing the COUNTER RESET button.

Only use cassettes marked VHS.

Never attempt to repair a torn tape and re-use it. You may damage the video heads.

Treat the video cassettes with care. Do not place them near magnetic fields (such as loudspeakers), as the recording may be damaged. Protect from dust and the sun.

You can protect recordings from being accidentally erased by breaking off the anti-erase (protective) tab.



Your VCR has a built in head cleaner that will automatically clean the recording/playback heads when a tape is inserted. It may happen after extensive use, that the heads need to be cleaned manually. In such a case, contact your dealer.

Recording off air

A comprehensive guide to recording is to be found in the chapter 'Recording'. Here we will limit ourselves to describe the simplest and quickest methods. Proceed as follows:

1. Select the video channel on your TV so that you can watch the programme being recorded.

2. Insert a cassette. The screen will show briefly the message "CASSETTE IN".

Make sure the anti-erase (protective) tab has not been broken off, otherwise the VCR will start playback.

3. On the VCR choose the channel you want to record by using the number keys or the JOG + or − buttons.

4. Press the REC button.

5. End the recording by pressing the PLAY/STOP button.

You can stop and start the recording at any time by using the PAUSE button (e.g. during commercial breaks).
Note that after five minutes on record pause mode, the VCR will stop recording. This avoids possible damage to the tape.

You can also select channels with the numeric keys. If you choose a two digit channel, you must first press the -/-- key.

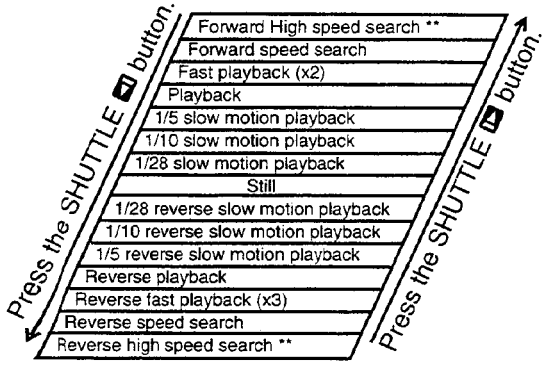
Basic functions

Playback

Rewind the tape with the REW button. Now press the PLAY/STOP button. You can stop the tape at any time with the PLAY/STOP button and remove the tape by pressing the EJECT button. This VCR has a quick start function which allows you to begin playback mode within 0.3 seconds, providing that the VCR has been in use within the last 5 minutes. After 5 minutes the VCR's drum will stop rotating to prevent damage to the tape.

Picture search

You can alter the playing speed by activating the SHUTTLE ◀◀ or ▶▶ buttons while playing a tape: pressing the SHUTTLE ▶▶ button increments the forward search speed. Pressing the SHUTTLE ◀◀ button increments the reverse search speed.



When using a tape recorded in SP mode, the VCR cannot be switched to the playback speeds marked ** in the above illustration.

There will be no colour during frame advance, still picture or picture search of LP recordings.

During still picture, the FF and REW buttons on the VCR, operate the same as the SHUTTLE buttons on the remote control. Pressing the FF button is the same as pressing the SHUTTLE ▶▶ button and pressing the REW button is the same as pressing the SHUTTLE ◀◀ button.

Large noise bars will be apparent in frame advance, still picture and all picture search modes. This is not a malfunction and is normal for all two head model video recorders.

(This note applies to the 721V(B) model video only.)

Still pictures

If you press the PAUSE button during playback, you will obtain a still picture. If the picture has a jitter you can correct it by pressing the CHANNEL ∧ or ∨ buttons on the VCR one at a time until the jittering improves.

Side to side vibrations cannot be adjusted with still adjustment.

Frame advance

In still mode, repeated pressing of the JOG ✚ or ▬ buttons allows frame to frame movement.

If not in play or record mode, the JOG ✚ or ▬ buttons are also for channel selecting. Furthermore, the JOG ✚ or ▬ and SHUTTLE ◀◀ or ▶▶ buttons are used for your personal programming of the on screen menus.

After 5 minutes in still and slow motion playback, the VCR will go into stop mode to prevent damage to the tape.

Fast forwarding and rewinding

When in stop mode, you can press the FF or REW buttons to fast forward or rewind the tape with no picture.

If, while playing a tape and you press the FF or REW button, the VCR will go into search mode. For high speed search, press and hold the FF or REW button for about 1 second before releasing, this only applies to LP recordings. Pressing the button again, or the PLAY/STOP button, resumes playback.

Automatic rewind mechanism

When the end of the tape is reached in record, playback, fast forward or forward search modes, it is automatically rewound. When the tape runs out during recording using the 1-2-3 MENU or one touch recording the tape stops and the VCR goes into standby mode. When the tape runs out in index search the tape stops.

During picture search the sound is muted. Depending on tapes and the types of TV sets used, the picture may roll up and down, noise may be present and the colour may disappear.

The horizontal noise bars which appear during fast playback, slow motion playback and reverse playback can be adjusted horizontally. To do this, press the CHANNEL ∧ or ∨ buttons on the VCR or the JOG ✚ or ▬ buttons one at a time.

Colour coordinated displays and buttons

For controlling the on screen menus, the remote control's buttons and the menus are equivalently coloured. The hints in the menus are shown in a colour which is the same colour as the buttons you must use. The colours that are used are as follows:

GREEN = VCR MENU/Settings

BLUE = VIDEO Plus+ programming

MAGENTA = One key programming

1-2-3 MENU operation

Using the 1-2-3 MENU you can easily do the basic VCR operations such as playback, recording and programmed recording. The interactive guide is displayed on the TV screen.

Playback using the 1-2-3 MENU

1. Turn on the VCR by using the POWER button on the remote control.

2. Turn on the TV and select the video channel.

3. Press the 1-2-3 MENU button. (A message may appear on the TV screen indicating that a cassette should be inserted at this point.)

4. Insert a pre-recorded tape. Once the tape has been inserted, the 1-2-3 MENU display will appear on the TV screen.

1-2-3 MENU
1.AUTOMATIC REWIND AND PLAY THE TAPE.
2.MAKE A RECORDING NOW
3.MAKE A RECORDING LATER
PRESS 1,2 OR 3 ON YOUR REMOTE CONTROL

5. Press the number 1 button. (The VCR will automatically rewind to the beginning of the tape and then switch to forward search mode to locate the first soundtrack, where it will begin to playback.)

You can end the playback at any time by pressing the PLAY/STOP button.

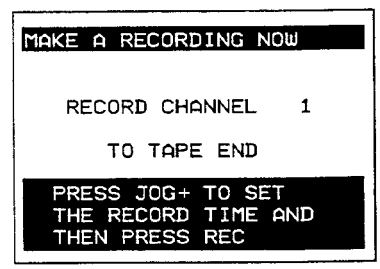
Recording using the 1-2-3 MENU

1. Repeat steps 1 to 2 as described in 'Playback using the 1-2-3 MENU' section.

2. Insert a cassette which has the anti-erase (protective) tab intact and press the 1-2-3 MENU button.

3. Press the number 2 button.

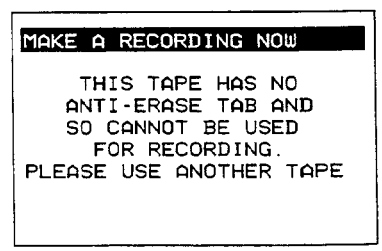
4. Select the channel to be recorded by pressing the JOG ✚ or ▬ buttons within 8 seconds. (After 4 seconds another display appears on the TV screen. You can now set the recording time.)



Press the JOG ✚ button to increase the recording time by 15 minutes with each press.

5. Now press the REC button.

Ensure the anti-erase (protective) tab has not been broken off, otherwise the error message below will appear and the tape will be ejected.



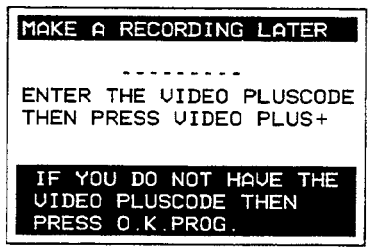
6. You may stop the recording at any time by pressing the PLAY/STOP button.

Programming using the 1-2-3 MENU

1. Insert a cassette which has the anti-erase (protective) tab intact.

2. Press the 1-2-3 MENU button.

3. Press the number 3 button.



A. If you have a VIDEO Plus+ number

4. Enter the PlusCode number using the number buttons.

5. Press the VIDEO Plus+ button. (The programme list display appears on the TV screen.)

If you make a mistake an error message will appear to inform you that something is wrong. (See 'VIDEO Plus+ programming' on pages 17 and 18.)

The channel number (CH) displayed may be (--). Enter the correct channel number by using the JOG + or − buttons.

6. Press the POWER button and confirm that the programme recording indicator (⏲) illuminates on the fluorescent display. (The VCR will now go into standby mode for recording.)

The DAILY/WEEKLY button cannot be used with this function, but you can programme for Weekly or Monday to Friday recordings on the programme list display. After entering your PlusCode number, press the VIDEO Plus+ button and then press the SHUTTLE ◄ button to move the flashing to the "DAY" setting and press the JOG + or − buttons to display [E -] or [MO-FR].

B. If you have no VIDEO Plus+ number

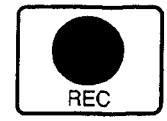
4. Press the O.K.PROG. button to display the programming menu.

5. Enter your programming data by using the O.K.-PROG. button when the cursor flashes at the selected item. Release the O.K.PROG. button when you have completed entering your data and the cursor will move to the next item after 4 seconds.

6. When you have completed entering all your data, set "CONFIRM" to "YES" and the VCR will automatically switch to standby mode for recording.

If the VCR is not in stop mode, the 1-2-3 MENU will not appear.

Recording



The programming menu of the 721V(B) or 740V(B) allows you to record up to 8 programmes in the course of a month. In addition it provides different ways of direct recording.

Tape speed

In all recording modes you have the choice of either Standard Play (SP) or Long Play (LP). LP means half speed and allows you to record for up to 8 hours on a four hour cassette (E-240). Using LP recordings may slightly reduce your picture quality. Select LP or SP by pressing the SP/LP button.

Automatic recording speed (AT)

This function records in SP mode, unless there is insufficient tape.
The recording will start in SP mode and the VCR will automatically switch to LP when the tape begins to run out.

Ensure that the TAPE LENGTH is set to the appropriate position (see page 20) according to the tape being used.

Instead of selecting SP or LP on the programming list, set the tape speed to AT.

To ensure the programme has recorded completely, we recommend you extend the end time of the recording.

The AT function is only available for one programme line at any time.

AT function is not available in OTR or PDC programming modes.

Recording one programme whilst watching another

If you want to watch one programme on the TV whilst recording another, select the channel you want to watch by pressing the appropriate channel button on your TV. On the VCR, select the channel you wish to record and start recording by pressing the REC button. To check the recording programme, select the video channel on your TV.

PDC programming

PDC is a Programme Delivery Control system. TV stations which use this system, transmit PDC codes with each programme. Instead of the VCR following the instructions you have entered for recording a programme i.e. channel, date, start time and end time, by selecting PDC, the VCR will look for signals which are transmitted with the programme when it is broadcast. When using the PDC function you can ensure that a recording will be completed even if it is broadcast earlier or later than planned or if it lasts longer than originally announced (i.e. football match going into extra time).

PDC:
If there is an overlap in the transmission because of delays, the PDC controlled recordings take priority. If two PDC programmes overlap the VCR will record the programme which started first.

It may happen, that the VCR does not recognise the PDC signals as they may be too weak, or the signal was not sent by the transmitter. In such a case, the VCR will start and finish at the times you programmed into the VCR. If while recording, the VCR receives and evaluates the PDC code, the VCR will switch over to recording in PDC mode, ensuring that the whole programme is recorded.

The VCR enters PDC standby at 8 pm on the day before the programmed recording. If the programme is not broadcast at the expected time, the VCR remains on standby until 4 o'clock the next morning after the programmed recording was due to be broadcast. While the VCR is on standby for PDC recording, it cannot be used in any other modes. To be able to use the VCR, press the POWER button. This will not erase any PDC programmes.

The PDC mode is indicated on the programme list display with a small "p". If the transmission has no PDC facility you must select "t" for timer (normal recording). In this case, the VCR will follow the time you have programmed only.

Record pause mode will not function during PDC recording.

Recording

The PDC system may not be available on all your TV stations. Only some stations may transmit PDC codes along with the programmes. If you find that your VCR has stopped recording before the actual end of the programme, this may be due to the broadcasting station not transmitting PDC codes.

Regular recording

In all timer modes you can record programmes which are broadcast regularly everyday (MO-FR) or every week. This facility is not limited to one month.

External appliances

If you wish to record from an external source, select the channel L1 or L2 on the VCR's fluorescent display and then press the REC button.

Programming 8 transmissions

If you have already chosen six programmes on the programme list display, the instructions in the lower half of the menu will be replaced by lines 7 and 8.

Setting the clock:
For all programmed recordings, i.e. everything except recording by using the REC button, the clock must be set.

If two TV programmes overlap in timer mode, recording will begin at the earlier start time and will then switch to the programme with the later start time.

Record button (REC)

You can start recording without pre-programming by using the REC button. The recording speed can be changed by pressing the SP/LP button (see page 15).

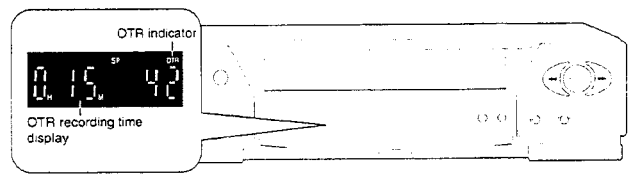
One touch recording (REC/OTR)

You can also record by using the REC/OTR button. The REC/OTR function is a quick and simple way to record programmes while only having to specify a length of time required for the recording. To use this function, proceed as follows:

1. Load your cassette and select the channel you wish to record. Remember to select the desired tape speed.

2. Press the REC/OTR button. Recording will now begin. Each further press of the REC/OTR will increase the recording time by 15 minutes. This is shown on the fluorescent display of the VCR. You can record up to four hours or until the end of the tape by using this function. You can interrupt the recording with the PAUSE button or stop the recording with the PLAY/STOP button.

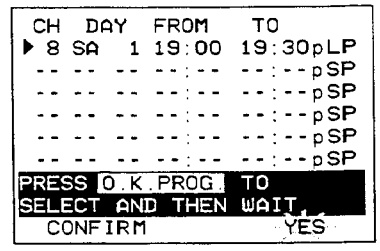
You can change the recording time during recording, by repeatedly pressing the REC/OTR button.



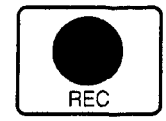
One key programming (O.K.PROG.)

By using the O.K.PROG. button you can easily set the timer with only one button.

One press of the O.K.PROG. button gives you the programme list display. Wait until two dashes (--) flash under "CH". Keep pressing the O.K.PROG. button until the channel number you want is shown. Wait about four seconds. After that the dashes below "DAY" will flash. Again press the O.K.PROG. button until the day you want is shown. Wait another four seconds and enter the start time and finish time of the recording. At the end of the programme line it will have "pSP". The "p" indicates PDC programming. The "SP" indicates standard play. These settings can also be changed.



Recording



After you have set the tape speed, the query "CONFIRM" will appear in the lower part of the menu. Check that the settings are correct. If they are, press the O.K.PROG. button to select the CONFIRM to YES. After four seconds the VCR switches itself off and shows a symbol (⏎) on the VCR's fluorescent display to indicate that the VCR is in programme recording standby mode.

If you choose NO in the last step of "CONFIRM", the cursor will return to the beginning of the line you have just entered and goes through the procedure item by item. Now you can change individual settings by using the O.K.PROG. button.

You can speed up this process by using the JOG + or − and SHUTTLE ◀◀ or ▶▶ buttons. With the SHUTTLE ◀◀ or ▶▶ buttons you move the flashing area, and by using the JOG + or − buttons you can change the settings.

You can quit the programme list display by pressing the MENU button or the PLAY/STOP button on the VCR.

If you did not complete the confirmation part of the programming process, the VCR will not go into standby until the POWER button is pressed.

Should you wish to programme for several recordings, after choosing the tape speed, the word CONFIRM appears. Press the SHUTTLE ▶▶ button then the JOG − button to select the next programme line. Continue to enter and repeat the process for all desired recordings. Only when you have completed all the required programming do you set CONFIRM to YES.

You can set the VCR to record Everyday, Weekly or from Monday to Friday. Press the O.K.PROG. button until:

Everyday recording	[E-DAY]
Weekly recording	[E-WE] (The 'WE' is for every Wednesday)
Monday to Friday recording	[MO-FR]

If you press the DATA ON SCREEN button while setting the programming menus, the black screen will be replaced by the TV picture overlaid with the programming details.

Once you press the POWER button, you will put the VCR into timer standby mode and therefore, you cannot use the VCR unless you press the POWER button once on the remote control or twice on the VCR.

Pressing the POWER button on the VCR once will turn the programmed recording indicator off.

To cancel a timer recording once it has started, press the POWER button on the VCR.

To return to the TV programme after you have entered your programming details, press the MENU button. The VCR will go into standby mode for recording after you press the POWER button.

After you have finished programming, you can check or alter the settings at any time on the programme list display. Ensure the VCR is switched on and then press the O.K.PROG. button. The programme list display appears.

You can delete a complete line with the CANCEL button or press the SHUTTLE ◀◀ button when the channel number is flashing.

VIDEO Plus+ programming

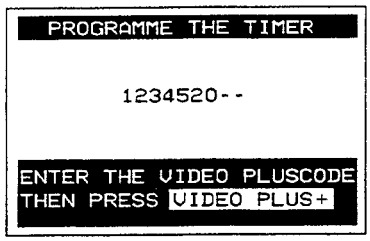
VIDEO Plus+ programming allows you to programme without entering a channel number, date, start and finish times. Instead you enter a VIDEO Plus+ number (PlusCode) of up to a maximum of nine digits.

PlusCode numbers are available from TV listings, magazines or national newspapers.

Proceed as follows:

1. Press the VIDEO Plus+ button.
2. Enter the PlusCode number using the number buttons.

Recording



Press the CANCEL button if you have entered the PlusCode number incorrectly.

3. To record once, press the VIDEO Plus+ button. (The TV screen switches to the programme list display.)

4. Repeat steps 1 to 3 for other recordings.

The following error messages will appear to inform you that something is wrong.

"ERROR" - An invalid number has been entered. Re-enter the correct number.
"OVERLAP ERROR" - The entry you have just made overlaps with one already present and therefore it will not be entered into the memory for recording.

After you have entered the PlusCode number and pressed the VIDEO Plus+ button, the numbers will be converted into the programme's data and will be displayed on the TV screen. The minutes of the 'TO' will flash and you can change this by using the JOG + or − buttons. If you want to change the hour setting, press the SHUTTLE button. You can now adjust the settings, by pressing the JOG + or − buttons. As not all TV stations have the PDC facility, you can extend the recording time to allow for possible programme delays.

Depending on the order of your stations, the channel number (CH) may differ from the one in the TV listings, magazines or national newspapers. To correct the channel number, press the SHUTTLE button to select the channel number and enter your correct channel by pressing the JOG + or − buttons. You will only need to do this once.

5. Press the MENU button to quit.

6. Press the POWER button and confirm that the programmed recording indicator (⏎) is illuminated on the fluorescent display. Now the VCR will go into standby mode for programmed recording.

A. Everyday recording with VIDEO Plus+

After entering your PlusCode number, press the VIDEO Plus+ button and then press the SHUTTLE button to move the flashing to the "DAY" setting and press the JOG + or − buttons to display [E-DAY].

B. Weekly recording with VIDEO Plus+

After entering your PlusCode number, press the DAILY/WEEKLY button until "WEEKLY" appears on the display, now press the VIDEO Plus+ button. ([E-] and the day of the week are displayed on the "DAY" setting of the programme list display. For example, [E-WE] will be displayed for weekly Wednesday recordings.)

C. Monday to Friday recording

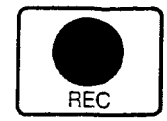
After entering your PlusCode number, press the DAILY/WEEKLY button until "DAILY" appears on the display, now press the VIDEO Plus+ button. ([MO-FR] is displayed on the "DAY" setting of the programme list display.)

For Monday to Friday and Weekly recordings, the PlusCode number will operate 1 week prior to and 1 week after the scheduled broadcast date.

Normally the programme list display's default setting is the "p" setting. If you want to change this setting, press the SHUTTLE button to move the flashing area to the "p" position and change to a "t" for timer programming mode. This recording method disregards PDC signals and is recommended for TV stations which do not use the PDC system.

You can programme your VCR using the VIDEO Plus+ function almost one month in advance. For example; if today is March the 9th, you can programme the VCR right up until April the 7th. No matter how many days the month has, two days will always be lost!

Recording



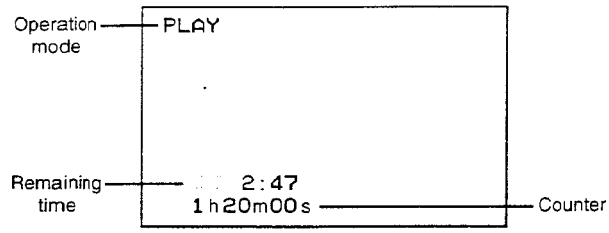
Recording satellite broadcasts

With a satellite receiver connected to your VCR, enter the PlusCode number for the satellite broadcast, then press the VIDEO Plus+ button. Set the correct input channel e.g. L1 or L2 according to the connection of the Satellite receiver, by using the JOG ✚ or ▬ and SHUTTLE ◀◀ or ▶▶ buttons.

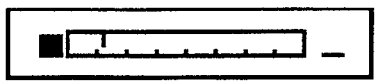
The satellite receiver must be switched ON at the time you wish to record and the appropriate channel selected.

Playback

To assist you the VCR can display information for a short time on the TV screen. Further information can be displayed by pressing the DATA ON SCREEN button.



To show the present time, press the DATA ON SCREEN button twice. The remaining time is replaced by the present time. While rewinding or fast forwarding, the approximate tape position will be shown in a bar.



Depending on the tape being used, the remaining time and the tape position display may not function correctly. The remaining time and the tape position display works with only recorded tapes and when recording. It does not work on unrecorded tapes.

The on screen display and the remaining time display are not available when playing back NTSC recorded tapes.

Tape length settings

To ensure the remaining time and tape position shown in the display are as accurate as possible, you must set the TAPE LENGTH from the VCR MENU according to the length of the tape being used. (Select E-180 for tapes which are 195 minutes long or less, E-240 for tapes which are 210 or 240 minutes long, E-260 for tapes which are 260 minutes long and E-300 for tapes which are 300 minutes long.)

E-180	E-30 E-60 E-90 E-120 E-150 E-180 E-195
E-240	E-210 E-240
E-260	E-260
E-300	E-300

Playing from marked positions (Index signals)

At the beginning of every recording a mark or "index signal" is inserted. You can manually insert index signals by pressing the REC button while recording and during playback (ensure that the anti-erase (protective) tab is intact). Index signals should be separated by at least one minute. "INDEX WRITE" appears on the TV screen.

In order to search for the first index signal, press the INDEX button once when in stop mode. By each press of the button you increase the number and can thus choose up to 19 marked points (+19). The VCR will then wind to the desired signal and start playing. If the required index signal is backwards from the starting point, press the INDEX button.

In the same way up to 19 index signals can be preselected (e.g. -19). On screen you will see displayed "SEARCH +" or "SEARCH -".

The index number will decrease by 1 with every index mark found.

If you want to end the search press the PLAY/STOP button.

Erasing index signals

To erase an index signal from a tape, press the CANCEL button during playback just before reaching the point at where the index signal is on the tape. "INDEX ERASE" appears on the TV screen.

Playback

Repeat playback of recordings

This function allows a recording to be repeatedly played back. It is an ideal function for demonstration recordings.

During playback press the 0 number button and within four seconds press the PLAY/STOP button. "REPEAT PLAY" will appear on the TV screen. When the VCR detects the next index signal or blank portion at the end of a recording, playback stops and the VCR rewinds to the previous index signal or the beginning of the tape and resumes playback.

This function will not operate with a tape recorded in the NTSC format.

You can quit from this function by pressing the PLAY/STOP or POWER button.

Replay function

If you press the ENCORE key during playback, the VCR will replay the last 5 seconds.

NTSC playback (on PAL TV)

To play a tape which has been recorded with the NTSC system, use the VCR as normal. There are no adjustments or switches necessary. The following notes concern playback of NTSC tapes.

Depending on the type of TV set used, the picture may shrink vertically and black bars may appear at the top and bottom of the screen. This is not an indication of a malfunction.

The playback picture may roll up and down. If the TV set is equipped with a V-Hold control, it may be possible to stop the picture movement by adjusting this control. However, a TV not equipped with this control cannot rectify this condition.

During special playback, the picture may not be in colour.

This function is designed only to allow the playback of tapes which have been recorded in the NTSC format on a PAL system TV. The NTSC signal is not completely converted to a PAL signal. For this reason, images played back by this function cannot be recorded on another VCR.

The quick start function is not available when using NTSC playback.

Advanced features

Your new Mitsubishi VCR offers you a wide range of facilities. The additional functions are for your satisfaction and are mentioned at the end of the instructions to make you familiar with the many extra refinements your VCR offers.

Tape optimizer

The tape optimizer which is on the VCR MENU, is a tape analysis function, which can be utilised in both playback and record mode.

During playback the signal level of the tape is checked and the picture is adjusted accordingly. A poor quality tape will be played back with less sharpness to reduce the picture noise.

During recording, the record signals are adjusted to the best possible level according to the tape quality.

The tape optimizer function may not work correctly if there is no video signal present at the start of the recording.

Since the tape optimizer function takes approximately 1 - 2 seconds to distinguish the grade of each tape, you can leave this feature switched on at all times.

Parental lock (LOCK)

This device helps to provide deliberate limitation on children's viewing and prevents unwanted use of the VCR. Switching on or off is done by the DATA ON SCREEN key, which you keep depressed for about 10 seconds, until the LOCK indicator on the VCR's fluorescent display either comes on or goes off. This function can also be activated in playback mode. In this case, the keys on the VCR and the remote control will not operate.

LOCK

Memory backup in case of power failure

This VCR is equipped with a memory backup in the event of a power failure. The VCR is automatically fully charged provided that the mains lead has been plugged in for at least an hour. In the event of a power failure, your programmed recordings and time display will remain intact for up to an hour, even if the mains plug is disconnected.

Automatic digital tracking (DTR)

DTR evens out the position of the tracking of video cassettes at the start of and during playback.

D

Initially the "D" indicator flashes on the fluorescent display until optimal tracking has been achieved. While the tracking is being adjusted there may be some brief interference to the picture.

If the DTR does not accomplish its task, manual operation is also possible. During playback, press the CHANNEL ∧ and ∨ buttons on the VCR until the tracking is in order and interference is at a minimum. Manual adjustment will go off if you press the CHANNEL ∧ and ∨ buttons on the VCR at the same time.

Blue background

Your VCR is factory set with the BLUE SCREEN operating. This setting offers a more pleasant appearance under certain conditions, e.g.:

- you select a channel with a weak signal.
- the channel you have selected is not broadcasting.
- the input signal is switched to an external source without any external signals coming in.
- when the video heads need cleaning (bad playback signals).
- if the VCR is not tuned into a station correctly.

This function can be turned off (e.g. if you want to watch a programme with a weak signal):
Choose BLUE SCREEN on the VCR MENU and turn it to OFF by using the SHUTTLE ▶ button.

Advanced features

Continuity between recordings

Your VCR has the facility to achieve frame to frame continuous recordings.

1. Press the PLAY/STOP button and then press the PAUSE button.

2. With the SHUTTLE ◀◀ or ▶▶ buttons find the desired starting point and then press the PAUSE button. You can now adjust it if necessary by using the JOG ⊞ or ⊟ buttons. The new recording will then start exactly at the designated point.

3. Press the REC button and the VCR will be in record pause mode.

4. Press the PAUSE button to end the pause mode and to start the recording.

Resetting the fluorescent display

In the event that the fluorescent display shows unusual indications, press the TIMER RESET button. The present time, date display and all programmed recordings will be erased. To do this, proceed as follows:

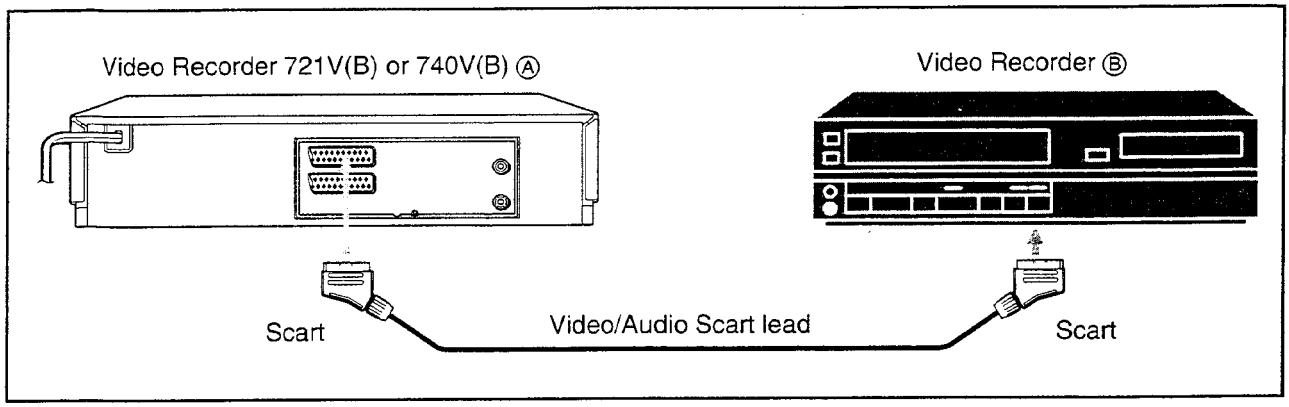
1. Press the POWER button to switch the power off and then press the TIMER RESET button by using a suitable implement.

2. Press the POWER button to resume the power.

When the timer reset function is utilised, the clock will automatically be set to the correct time and date.

Advanced features

Copying with two VCR's



Link both VCR's by using a Scart lead as shown in the diagram. Connect the EURO AV2 IN of recorder Ⓐ to the EURO AV socket or to RCA AUDIO/VIDEO OUT sockets of recorder Ⓑ. If the second VCR Ⓑ has no Scart socket but has an RCA AUDIO/VIDEO output then use a corresponding adapter cable. In this example your Mitsubishi VCR Ⓐ is being used as the recording device.

1. On the remote control press the JOG ◀ button until the external channel L2 (EURO AV2 IN) shows on the Mitsubishi VCR Ⓐ.

2. Start playing on the other VCR Ⓑ, then press the REC button on the Mitsubishi VCR Ⓐ.

An external channel must not be selected on the playback VCR (Ⓑ) especially when the recording VCR (Ⓐ) is connected via a Scart cable.

Alternatively you can connect your new VCR up to record from other equipment:
-A satellite receiver

-Video camera

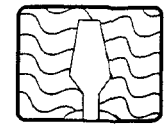
Connect your new VCR to a Satellite receiver or Video camera by using a scart cable or a scart to phono cable. (For further information on connections, see page 5.)

Tip: If you want to have a permanent connection between two VCR's, it is best to use a Scart cable.

Editing control

This feature is ideal for editing commercials while recording. During recording, press the PAUSE button. By using the SHUTTLE ◀◀ or ▶▶ buttons, position the tape at the beginning of the commercial. Press the PAUSE button when the picture you wish to start recording is located. After approximately 3 seconds, the screen will return to the picture you wish to record and record pause mode will be resumed. Press the PAUSE button when the commercials are finished to commence recording.

Troubleshooting



Troubleshooting and error elimination

If the machine does not follow your commands, there may not necessarily be a serious fault. First of all go through the checklist below and see if the problem is due to a simple cause.

Fault	Action
Power not supplied to your VCR.	Remove the plug and check the fuse.
VCR power is ON but the VCR is not operating.	Is the LOCK indicator ON, if so, press and hold the DATA ON SCREEN button for approximately 10 seconds. The LOCK indicator should disappear.
Nonsense information appears in the fluorescent display.	Press the TIMER RESET button on the rear of the VCR. Remember that all timer programmes for recording will be lost.
The VCR does not operate when the REC button is pressed.	Check the cassette has the anti-erase (protective) tab intact. Check there is tape remaining. Is the LOCK indicator ON?
There is no picture during playback or recording.	Ensure the video channel is selected on your TV. Are the TV and VCR set to the same video channel? (See page 6.)
Picture on replay is rather noisy.	Make sure that the automatic tracking is set. Correct manually if necessary.
The VCR does not record from any stations.	Check that the VCR's selected channel is the correct one and that you can get a good picture for viewing.
No operation when the buttons on the remote control are pressed.	Have the batteries run low? Is the LOCK indicator ON?
You can view clear TV pictures through your VCR, but the picture is blurred during playback.	This may indicate that the video heads need to be cleaned. Although, this VCR incorporates an Auto-Head Cleaner, in extreme cases additional methods may be required. Under no circumstances should a Wet Type Head Cleaning Cassette be used with this mechanism, as it may seriously damage the 'Mechanical Deck'. The instructions of all Head Cleaning Cassettes must be followed exactly.
Video cassette automatically unloads.	The cassette has been inserted incorrectly. Remove the cassette and wait for a few seconds and try again.

This list of faults will not help you in all cases. If a serious problem develops, please contact your dealer.

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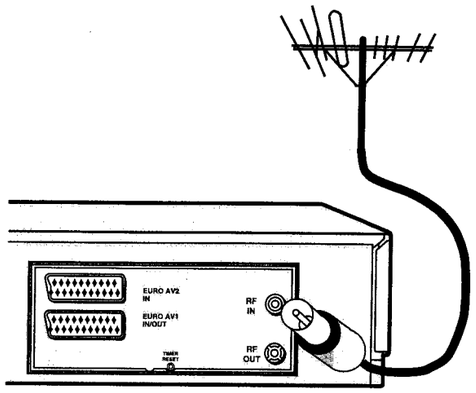
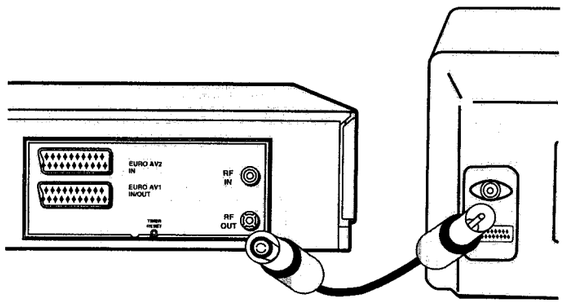
Installing your TV

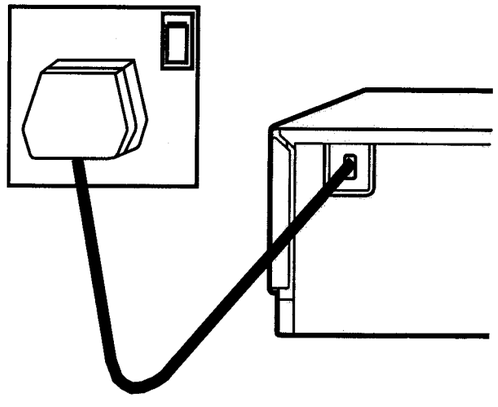
To complete your installation you will need to connect your VCR to an aerial (not supplied) and a TV.



Insert the aerial (not supplied) into the **RF IN** socket at the rear of your VCR, and connect the aerial connector (supplied) from the **RF OUT** socket of your VCR to the aerial socket of your TV.



The type of aerial required depends on the position of your home, distance from the transmitter and local interference. If you do not have an aerial and you are uncertain of what to buy, you should seek the advice of a local aerial contractor.



Plug your VCR into a mains socket (AC).

Your VCR is installed.

You will find these accessories in the packing box.

Remote Control

Two batteries for the remote control

Aerial connector

Guarantee card and envelope

Instruction manual

MITSUBISHI

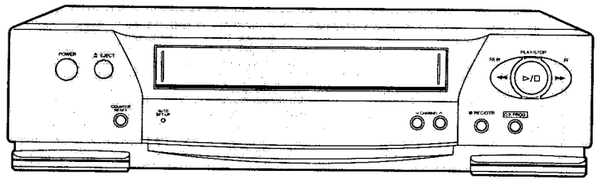
After following this easy step by step guide you will be able to:

Connect your VCR to a TV and aerial.

Tune in your VCR.

View TV programmes.

Playback and Record Video Cassettes.



Before installation.
Unpacking your new VCR and exposing it to a warm room may cause condensation to form that could damage any tape inserted or the tape transport mechanism. Should the VCR be subject to a wide temperature change (for example your new VCR may have been in the boot of your car for a long period of time) on installation, switch the VCR to ON but do not operate the VCR for about two hours. The VCR will gradually warm up, and disperse any condensation.

If you experience any problems during the installation of this VCR, please contact the Mitsubishi Helpline on:

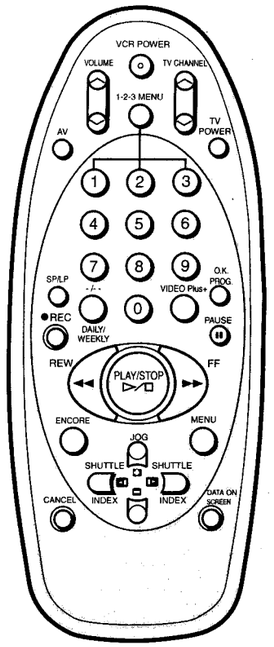
0115 9791 777

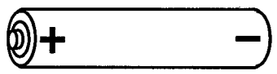
871B159B10

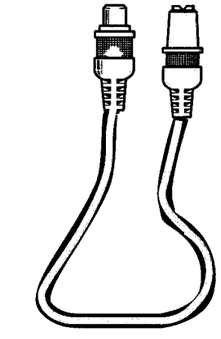
MITSUBISHI

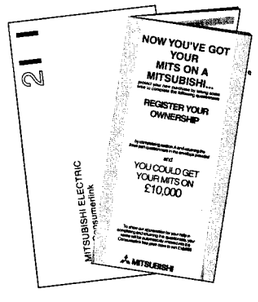
Quick Set-up Guide

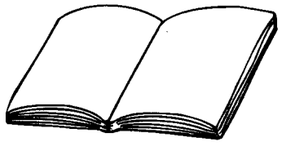
Please use this guide for installing your new VCR



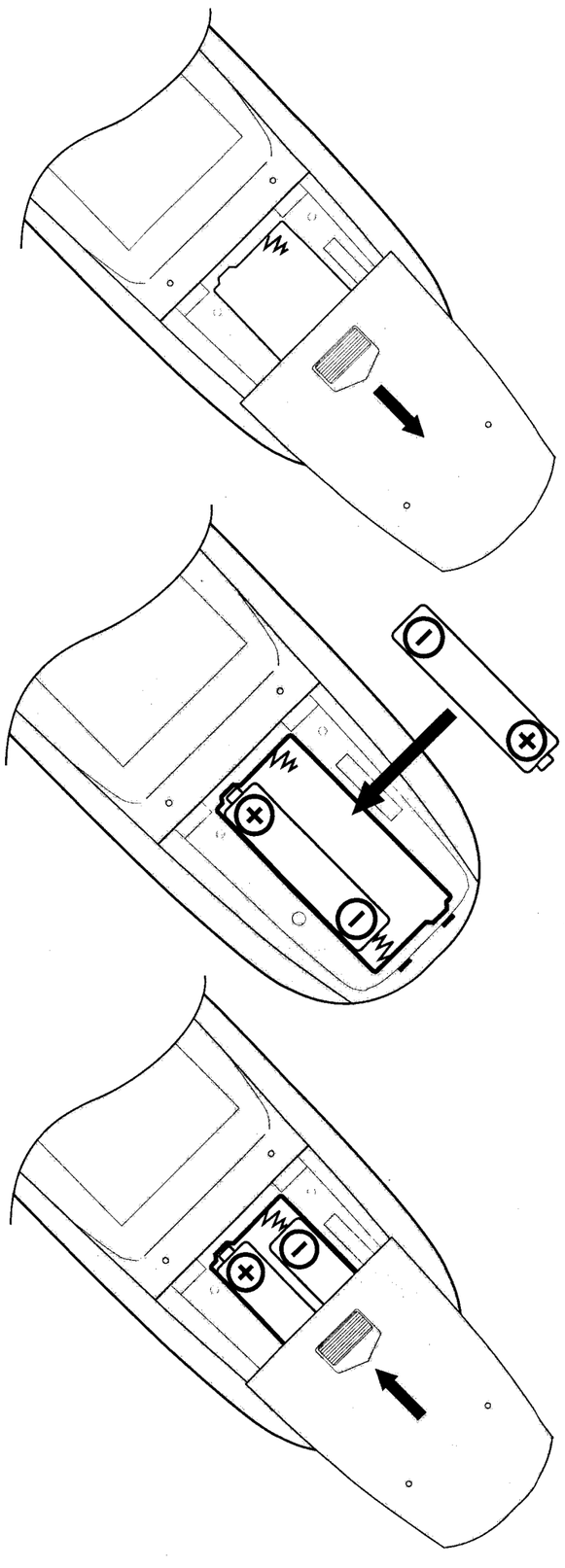








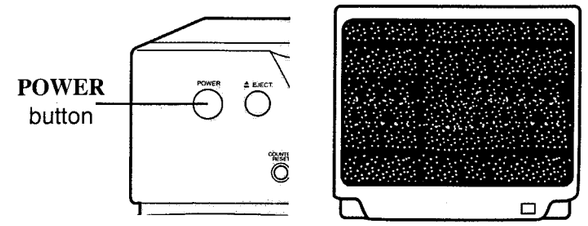
How to insert the batteries into the remote control



How to tune in television stations

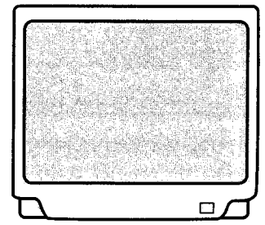
Before you can view any television stations, they must be tuned into your VCR's memory. Remember you will be unable to tune in TV stations if an aerial (not supplied) is not connected.

Make sure that your VCR is connected properly to the TV and switch on your TV.



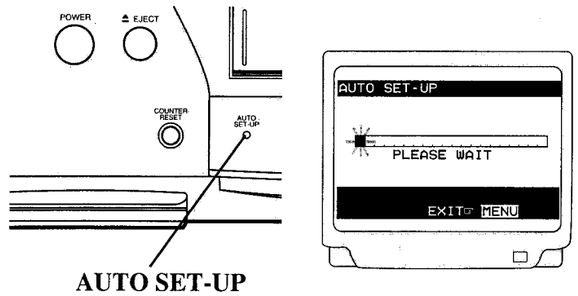
Switch on your VCR by using the **POWER** button.

Adjust your TV's tuning until a blue screen appears. Refer to your television's Instruction Manual if necessary.



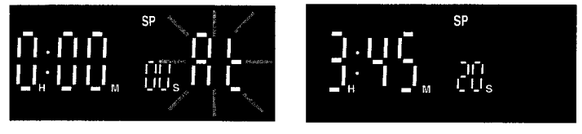
CH5 - If you have a problem with channel 5 picture quality, refer to page 6 of the VCR's Instruction Manual.

Press the **AUTO SET-UP** button (found on the front of the VCR) by using a suitable implement.



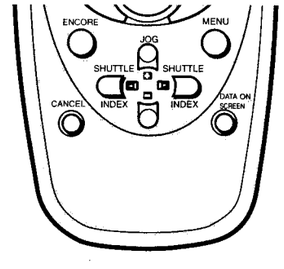
The tuning of stations will be displayed on the TV screen by a tuning indicator which will move from left to right.

The letters "At" flash on the fluorescent display.



When the letters "At" stop flashing, tuning and clock setting has been completed.

Check that the VCR has tuned the stations in the correct order i.e. CH1 - BBC1, etc. by using the JOG buttons.



CH1 - BBC1
CH2 - BBC2
CH3 - ITV
CH4 - CH4
CH5 - CH5

In order for the VIDEO Plus+ system to work correctly, the TV station's must be set into the VCR's channels in the order as shown. Do not change this order or the VIDEO Plus+ system will not work.

You have now set up your VCR, you can now playback tapes and record TV programmes.